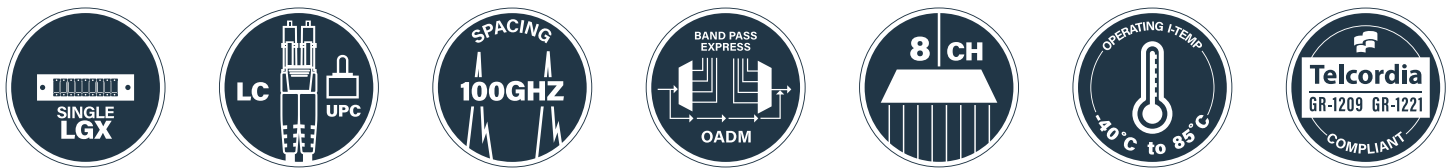


Features:

- 8 Channel Single Fiber DWDM OADM LGX
- Channel Wavelengths: DWDM CH. 20 - 27
- Channel Spacing: 100GHz
- Maximum Optical Power: 300mW
- Connector Type - All Ports: LC/UPC
- Reliability: Telcordia GR-1209, GR-1221
- Operating Temperature: -40 to 85°C
- Storage Temperature: -40 to 85°C
- Dimensions: 100mm x 100mm x 28.5mm
- Faceplate: 130mm



1. Optical Requirements

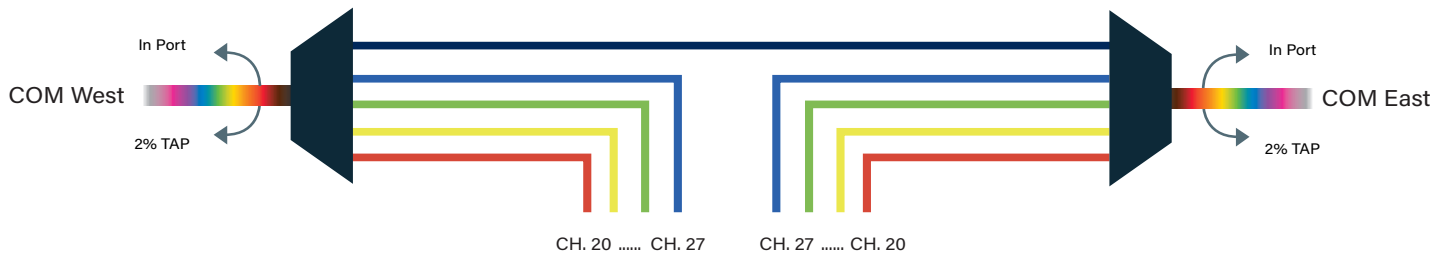
Parameter	Value
Passband, DWDM Channel Ports (Min.)	$\geq \text{ITU} \pm 0.11\text{nm}$
Passband Ripple (Max.)	$\leq 0.5\text{dB}$
Isolation, Adjacent Channel - DWDM (Min.)	$\geq 30\text{dB}$
Isolation, Non-Adjacent Channel - DWDM (Min.)	$\geq 40\text{dB}$
Return Loss - All Ports (Min., Including Connectors)	$\geq 45\text{dB}$
Directivity - DWDM Ports (Min.)	$\geq 45\text{dB}$
Polarization Dependent Loss (Max.)	$\leq 0.2\text{dB}$
Polarization Mode Dispersion (Max.)	$\leq 0.2\text{ps}$

2. Insertion Loss

Parameter	Value
COM Rx \rightarrow Tx (Typ., Excl. Connectors)	2.9dB
COM Rx \rightarrow Tx (Max., Excl. Connectors)	$\leq 3.2\text{dB}$
Rx \rightarrow COM Tx (Typ., Excl. Connectors)	2.9dB

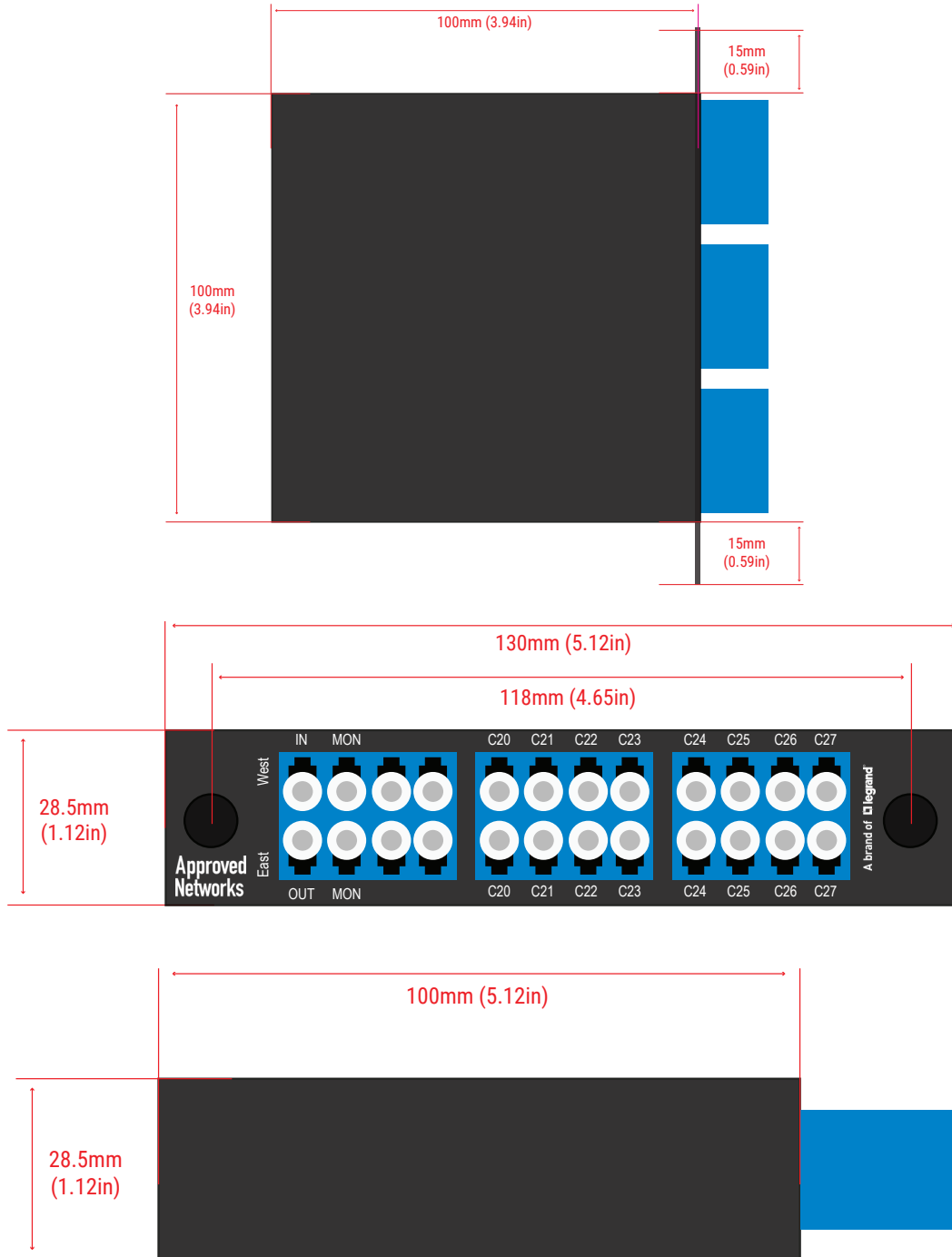
Rx → COM Tx (Max., Excl. Connectors)	≤ 3.2dB
COM Rx (West) → COM Tx (East) (Typ., Excl. Connectors)	2.3dB
COM Rx (West) → COM Tx (East) (Max., Excl. Connectors)	≤ 2.5dB
2% Mon - Mux (East) (Excl. Connectors)	22.2dB
2% Mon - Demux (West) (Excl. Connectors)	19.0dB

3. Network Diagram



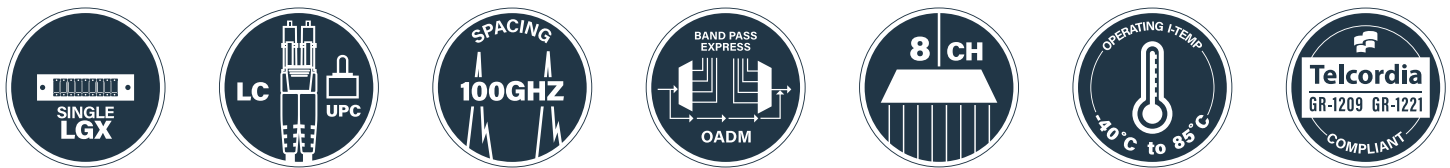
Channel	West		East	
	Typ.	Max.	Typ.	Max.
CH. 20	2.9	3.2	1.6	2.0
CH. 21	2.6	2.9	1.9	2.3
CH. 22	2.3	2.6	2.2	2.6
CH. 23	2.0	2.3	2.5	2.8
CH. 24	2.5	2.8	2.0	2.3
CH. 25	2.2	2.6	2.3	2.6
CH. 26	1.9	2.3	2.6	2.9
CH. 27	1.6	2.0	2.9	3.2

4. Mechanical Diagram



Features:

- 8 Channel Single Fiber DWDM OADM LGX
- Channel Wavelengths: DWDM CH. 21 - 28
- Channel Spacing: 100GHz
- Maximum Optical Power: 300mW
- Connector Type - All Ports: LC/UPC
- Reliability: Telcordia GR-1209, GR-1221
- Operating Temperature: -40 to 85°C
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- Dimensions: 100mm x 100mm x 28.5mm
- Faceplate: 130mm



1. Optical Requirements

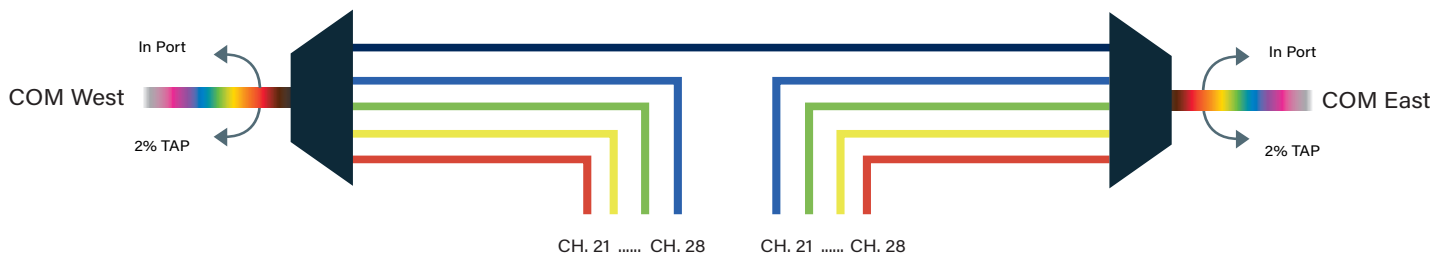
Parameter	Value
Passband, DWDM Channel Ports (Min.)	$\geq \text{ITU} \pm 0.11\text{nm}$
Passband Ripple (Max.)	$\leq 0.5\text{dB}$
Isolation, Adjacent Channel - DWDM (Min.)	$\geq 30\text{dB}$
Isolation, Non-Adjacent Channel - DWDM (Min.)	$\geq 40\text{dB}$
Return Loss - All Ports (Min., Including Connectors)	$\geq 45\text{dB}$
Directivity - DWDM Ports (Min.)	$\geq 45\text{dB}$
Polarization Dependent Loss (Max.)	$\leq 0.2\text{dB}$
Polarization Mode Dispersion (Max.)	$\leq 0.2\text{ps}$

2. Insertion Loss

Parameter	Value
COM Rx \rightarrow Tx (Typ., Excl. Connectors)	2.9dB
COM Rx \rightarrow Tx (Max., Excl. Connectors)	$\leq 3.2\text{dB}$
Rx \rightarrow COM Tx (Typ., Excl. Connectors)	2.9dB

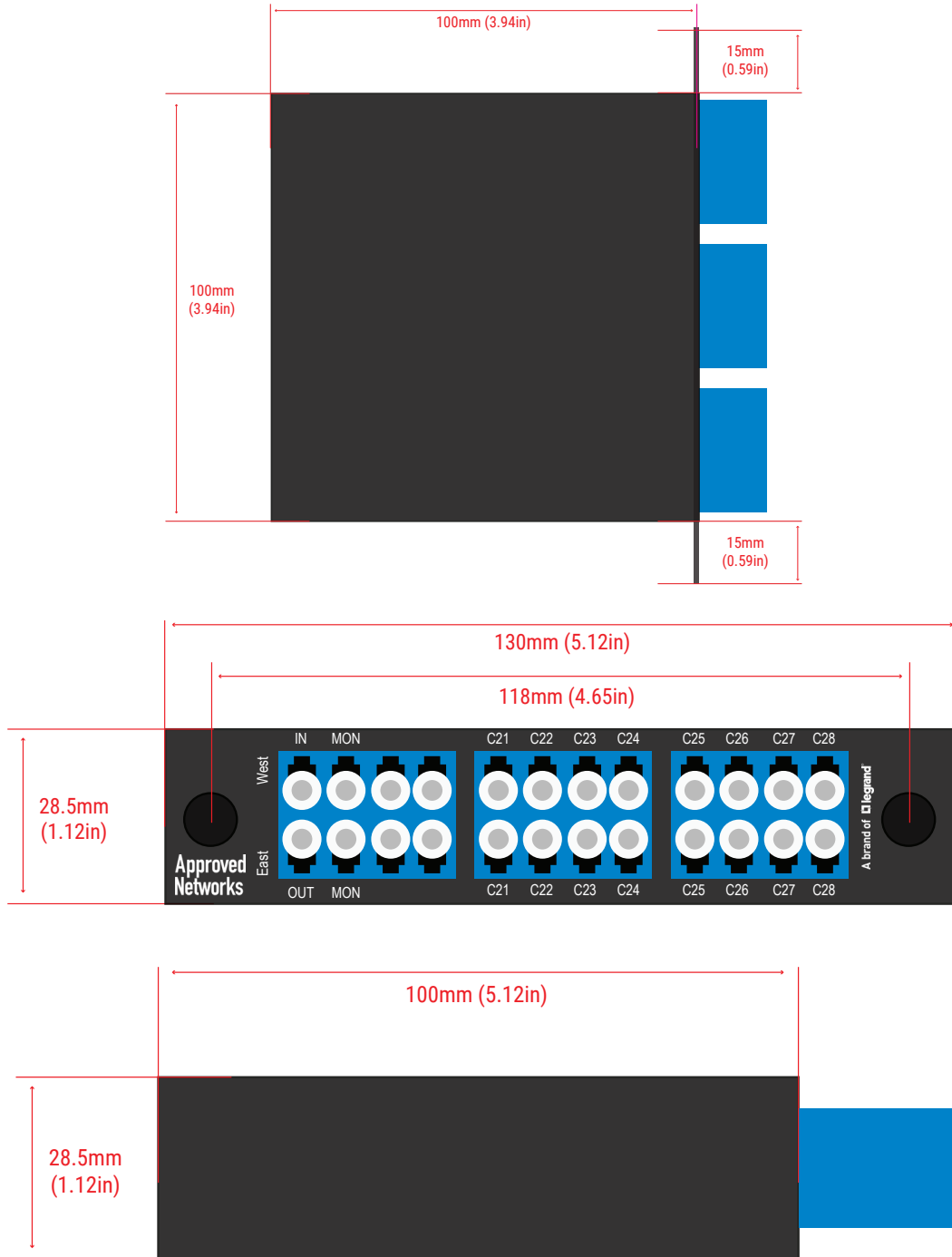
Rx → COM Tx (Max., Excl. Connectors)	≤ 3.2dB
COM Rx (West) → COM Tx (East) (Typ., Excl. Connectors)	2.3dB
COM Rx (West) → COM Tx (East) (Max., Excl. Connectors)	≤ 2.5dB
2% Mon - Mux (East) (Excl. Connectors)	22.2dB
2% Mon - Demux (West) (Excl. Connectors)	19.0dB

3. Network Diagram



Channel	West		East	
	Typ.	Max.	Typ.	Max.
CH. 21	2.9	3.2	1.6	2.0
CH. 22	2.6	2.9	1.9	2.3
CH. 23	2.3	2.6	2.2	2.6
CH. 24	2.0	2.3	2.5	2.8
CH. 25	2.5	2.8	2.0	2.3
CH. 26	2.2	2.6	2.3	2.6
CH. 27	1.9	2.3	2.6	2.9
CH. 28	1.6	2.0	2.9	3.2

4. Mechanical Diagram



5. Ordering Information: Mounting Options

LGX Chassis



Part Number	Description	Dimensions	LGX Slots
ZS-LGX3R-14S-CHASSIS-1923	LGX 3RU Chassis For 14 LGX Modules And Fiber Mgmt. - 19 Or 23" Rack	Fits 19" Or 23" Rack x 3RU	14



Part Number	Description	Dimensions	LGX Slots
ZS-LGX1R-3S-CHASSIS-1923	LGX 1RU Chassis For 3 LGX Modules And Fiber Mgmt. - 19 Or 23" Rack	Fits 19" Or 23" Rack x 1RU	3

LGX Faceplate



Part Number	Description	Dimensions	LGX Slots
LGX1R-FACEPLATE	1RU Faceplate 19" With 3 LGX Slots For Passives	Fits 19" Rack x 1RU	3

Magnetic "C" Bracket



Part Number	Description	Dimensions	LGX Slots
LGX-2U2L	2RU Magnetic Bracket With 2 LGX Slots For Passives	5.28" x 3.94" x 2.44"	2

6. Contact Information

Tel: 800.590.9535

Web: <http://www.approvednetworks.com>